



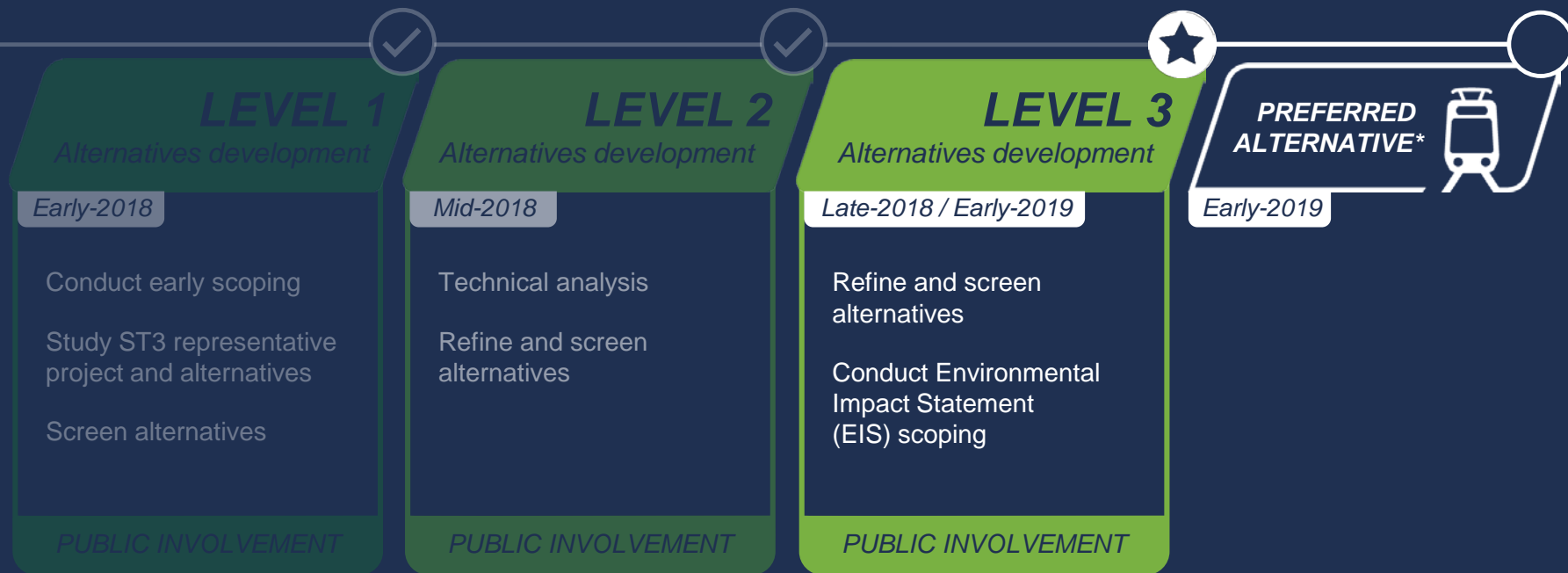
West Seattle and Ballard Link Extensions

System Expansion Committee / February 14, 2019

Agenda

- *Alternatives development process*
- *Level 3 alternatives*
- *Level 3 evaluation results*
- *Potential mix-and-match opportunities*

Alternatives development process



*The Sound Transit Board identifies preferred alternatives and other alternatives to study.

Community engagement and collaboration



Community Updates



Neighborhood Forums



Stakeholder Advisory Group



Elected Leadership Group



Sound Transit Board



Meeting dates subject to change.

Level 3 alternatives screening



SAG Meeting #12	Jan 30	Level 3 evaluation results
ELG Meeting #6	Feb 1	Level 3 evaluation results
EIS Scoping Open Houses / Neighborhood Forums	Feb 27, 28 & March 7	Level 3 evaluation results
ELG Meeting #7	March 29	CID station focus
SAG Meeting #13	April 17 or 18	Level 3 recommendations
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Sound Transit Board System Expansion Committee	May 9	Identify preferred alternative (and other EIS alternatives)
Sound Transit Board Full Board	May 23	Identify preferred alternative (and other EIS alternatives)

What is EIS Scoping?

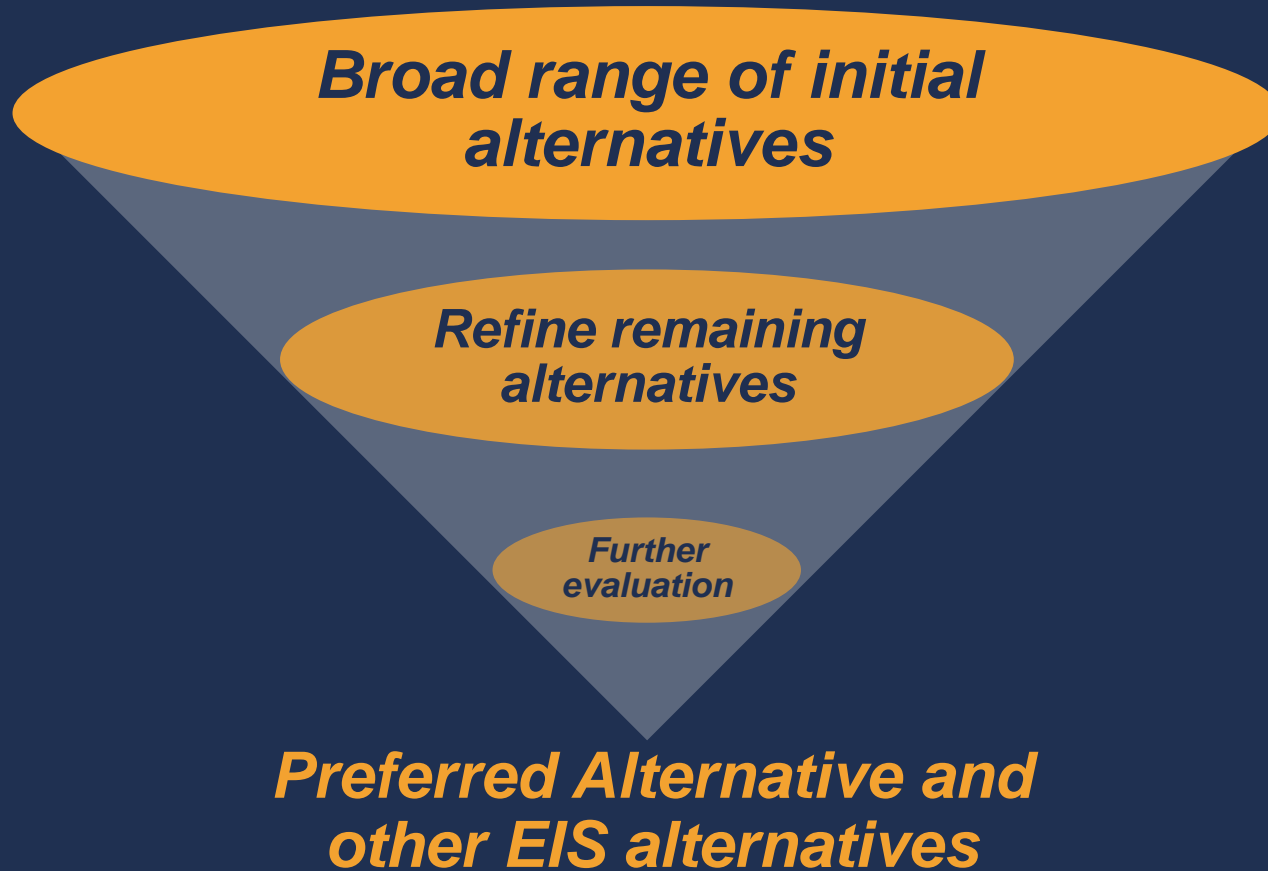
- Start of federal environmental review process
- 30-day **public comment period** begins **February 15**
- Seeking public **feedback on scope of EIS**
 - Range of alternatives
 - Topics to study
 - Purpose and need
- **Informs Board decision** on what to study in EIS*

* Scope of EIS also subject to Federal Transit Administration (FTA) oversight

How to provide scoping comments

- **Attend an open house:**
 - West Seattle on Wednesday, Feb. 27, 6 – 8:30 p.m. at [Alki Masonic Center](#)
 - Ballard/Interbay on Thursday, Feb. 28, 6 – 8:30 p.m. at [Ballard High School](#)
 - Downtown on Thursday, March 7, 5 – 7:30 p.m. at [Union Station](#)
- **Comment online:** wsblink.participate.online
- **Email us:** wsbscopingcomments@soundtransit.org
- **Leave a voicemail:** 833-972-2666
- **Mail us:**
 - West Seattle and Ballard Link Extensions, c/o Lauren Swift, Sound Transit, 401 S. Jackson St., Seattle, WA 98104

Screening process



Level 3 recommendations

- Interest in *additional scope* items
- Additional scope items *require 3rd party funding**
- Potential *recommendations*:
 - Preferred Alternative #1: If 3rd party funding *not* secured
 - Preferred Alternative #2: If 3rd party funding *is* secured

* “3rd party funding” refers to potential local contribution/funding partnership(s) to supplement Sound Transit and federal funding 9

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Level 3 alternatives

Summary of Level 3 alternatives

ST3 Representative Project

➤ **West Seattle Elevated/ C-ID 5th Ave/ Downtown 6th Ave/ Ballard Elevated**

- C-ID station options: 5th Ave Cut-and-Cover and 5th Ave Mined

➤ **West Seattle Tunnel/ C-ID 4th Ave/ Downtown 5th Ave/ Ballard Tunnel**

- Junction station options: 41st Ave, 42nd Ave and 44th Ave
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West Seattle Elevated/ C-ID 5th Ave/ Downtown 6th Ave/ Ballard Elevated

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West Seattle Tunnel/ C-ID 4th Ave/ Downtown 5th Ave/ Ballard Tunnel



Level 3 evaluation results

Evaluation criteria

➤ 17 criteria consistent in all levels of evaluation

- Reliable service
- Travel times
- Regional connectivity
- Transit capacity
- Projected transit demand
- Regional centers served
- ST Long-Range Plan consistency
- ST3 consistency
- Technical feasibility
- Financial sustainability
- Historically underserved populations
- Station area land use plan consistency
- Modal integration
- Station area development opportunities
- Environmental effects
- Traffic operations
- Economic effects

Measures and methods

- 50+ quantitative and/or qualitative **measures**
- **Ratings** for Lower, Medium and Higher performing

Lower
Performing

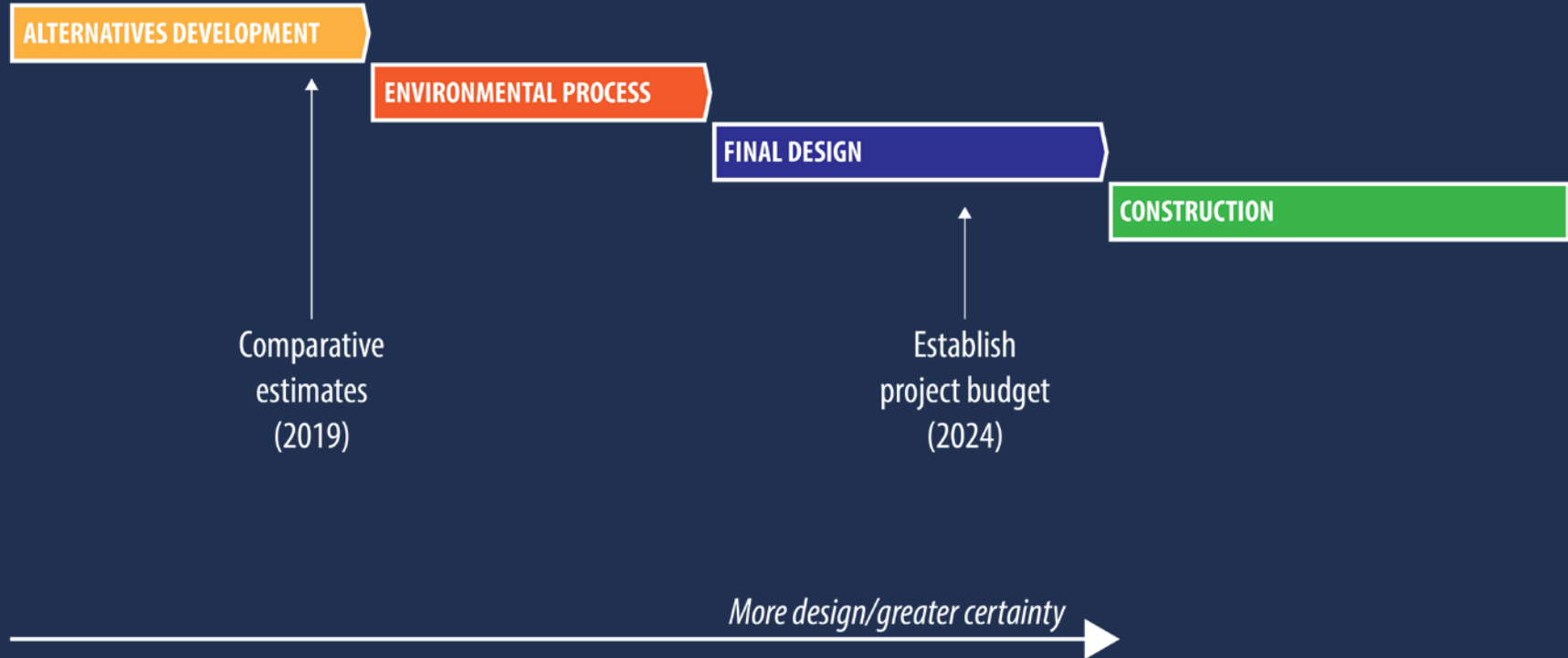
Medium
Performing

Higher
Performing

Comparative estimates

- Purpose: To **inform comparison** of Level 3 alternatives
- **Comparative estimates** for end-to-end alternatives
 - Consistent methodology (2018\$; construction, real estate, etc.)
 - Based on **limited conceptual design** (less than 5% design)
 - Does not establish project budget
- **Project budget** established during final design (~ 2024)

Project budget



Evaluation Measures	ST3 Representative	West Seattle Elevated/C-ID 5th Ave/Downtown 6th Ave/Ballard Elevated		West Seattle Tunnel/C-ID 4th Ave/Downtown 5th Ave/Ballard Tunnel				
	Project	5th Ave Cut-and-Cover International District/ Chinatown Station	5th Ave Mined International District/ Chinatown Station	41st Ave Alaska Junction/4th Ave Cut-and-Cover/14th Ave Ballard	42nd Ave Alaska Junction Station	44th Ave Alaska Junction Station	4th Ave Mined International District/ Chinatown Station	15th Ave Ballard Station
Provide high quality rapid, reliable, and efficient peak and off-peak light rail transit service to communities in the project corridors defined in ST3.								
At-grade crossings	3	1		1				
Potential service interruptions/recoverability	Lower	Medium		Medium			Lower	Medium
Improve regional mobility by increasing connectivity and capacity through downtown Seattle to meet projected transit demand.								
Network Integration	Lower	Medium		Higher			Medium	Higher
Connect regional centers as described in adopted regional and local land use, transportation, and economic development plans and Sound Transit’s Regional Transit Long-Range Plan.								
Accommodates future LRT extension	Lower	Medium		Higher		Medium	Higher	
Implement a system that is consistent with the ST3 Plan that established transit mode, corridor, and station locations and that is technically feasible and financially sustainable to build, operate, and maintain.								
Potential ST3 schedule effects	Higher	Higher	Medium	Lower				
Potential ST3 operating plan effects	Lower	Higher		Higher			Medium	Higher
Engineering constraints	Lower	Medium		Lower				
Constructability issues	Lower	Medium		Lower				
Operational constraints	Lower	Medium	Lower	Higher			Lower	Higher
Capital costs (2018\$)	-	+\$400M	+\$500M	+\$1,900M			+\$2,100M	+\$1,900M
Encourage equitable and sustainable urban growth in station areas through support of transit-oriented development, station access, and modal integration in a manner that is consistent with local land use plans and policies.								
Passenger transfers	Higher	Higher	Medium	Higher			Medium	Higher
Equitable development opportunities	Lower	Medium		Higher				
Preserve and promote a healthy environment and economy by minimizing adverse impacts on the natural, built and social environments through sustainable practices.								
Parks/recreational resource effects (acres)	1.4	5.3		5.7				
Water resource effects (acres)	0.8	0.5		<0.1				
Fish and wildlife habitat effects (acres)	15.0	6.0		15.0				
Hazardous materials sites ⁽¹⁾	50	60		40				
Visual effects to sensitive viewers (miles)	2.5	1.7		1.2				
Potentially affected properties	Medium	Lower		Higher				
Residential unit displacements	Medium	Lower		Higher				
Business displacements (square feet)	Higher	Lower		Higher				
Construction impacts	Lower	Lower	Medium	Medium		Higher	Lower	Medium
Burden on minority/low-income	Lower	Medium		Lower				
Traffic circulation and access effects	Lower	Medium		Higher				
Effects on transportation facilities	Lower	Medium		Medium				
Effects on freight movement	Lower	Medium		Medium				

(1) On properties that overlap with the project footprint

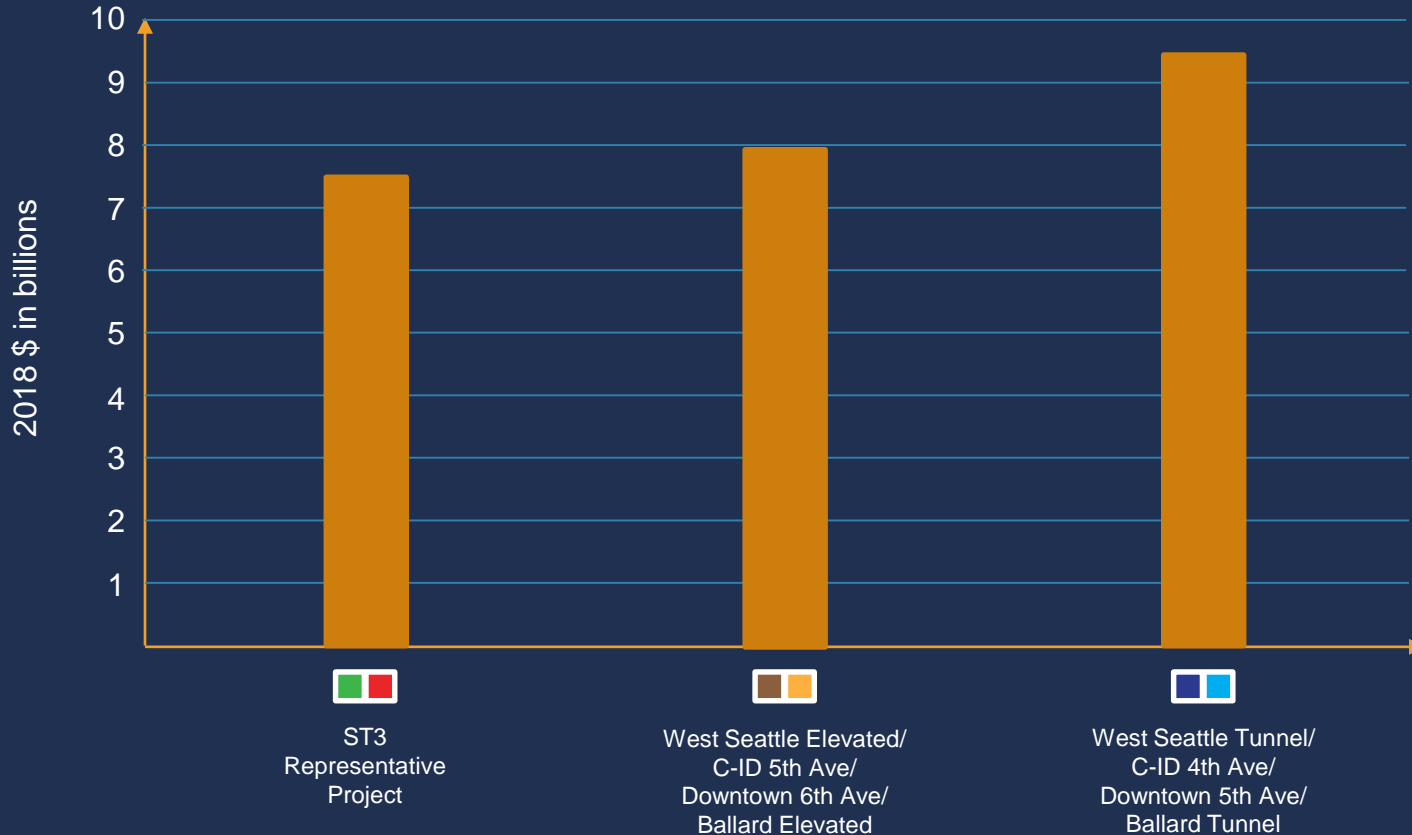
Lower Performing

Medium Performing

Higher Performing

Summary of differentiators

Comparative estimates



Estimates based on limited conceptual design for the purpose of comparing alternatives only. Project budget established during final design (~2024).

A photograph of a modern light rail train at a station platform. The train is white with blue accents and has "ANTONY DENTLEIGH" written on its front. It is stopped at a platform with a blue and white striped safety line. Several people are waiting on the platform, including a woman in a yellow hijab and a man in a blue shirt. The platform has a blue metal railing and a blue circular sign. The background shows green trees and a clear sky. The text "Potential mix-and-match opportunities" is overlaid in white, italicized font.

Potential mix-and-match opportunities

Summary of Level 3 alternatives

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West Seattle Elevated/ C-ID 5th Ave/ Downtown 6th Ave/ Ballard Elevated – Potential mix-and-match opportunities

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West Seattle Tunnel/ C-ID 4th Ave/ Downtown 5th Ave/ Ballard Tunnel – Potential mix-and-match opportunities



Next steps

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